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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/038,793	12/31/2001	Dwight D. Riley	200302340-1	2968
22879	7590	05/12/2006	EXAMINER	
HEWLETT PACKARD COMPANY P O BOX 272400, 3404 E. HARMONY ROAD INTELLECTUAL PROPERTY ADMINISTRATION FORT COLLINS, CO 80527-2400			NGUYEN, BRIAN D	
			ART UNIT	PAPER NUMBER
			2616	

DATE MAILED: 05/12/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/038,793

Applicant(s)

RILEY, DWIGHT D.

Examiner

Brian D. Nguyen

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 23 February 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-12, 14 and 16-22 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 10-12, 14 and 16-18 is/are allowed.
- 6) ☒ Claim(s) 1, 8, 9, 19 and 21 is/are rejected.
- 7) ☒ Claim(s) 2-7, 20 and 22 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 31 December 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: \_\_\_\_\_

## **DETAILED ACTION**

### ***Claim Objections***

1. Claims 1 are objected to because of the following informalities:

Claim 1, line 6, “a primary port” seems to refer back to “a primary port” in line 2. If this is true, it is suggested to change “a primary port” to --the primary port--.

Claim 5, line 3, “the plurality of end-device secondary ports” seems to refer back to “a plurality of end-device ports” in line 3 of claim 1. If this is true, it is suggested to change “a plurality of end-device ports” in claim 1 to --a plurality of end-device secondary ports--.

Claim 7, line 6, it is suggested to insert --the-- before “further non-bridge transactions”.

Claim 22 should be dependent on claim 20 because the terms “snooped portion” and target address” are mentioned in claim 20. “a shadow register” in line 2 should also be changed to --the shadow register--. The examiner assumes claim 22 depends on claim 20 for this Office Action.

### ***Claim Rejections - 35 USC § 112***

2. Claim 19 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The limitation: “... based on the absence of a bridge...” was not described in the specification.

### ***Claim Rejections - 35 USC § 102***

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3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1, 8, 9, 19, and 21 are rejected under 35 U.S.C. 102(e) as being anticipated by Ajanovic et al (2003/0115391).

Regarding claim 1, Ajanovic discloses a method of switching transactions on an interconnect switch (switch in figure 1), the interconnect switch having a primary port connected to a primary interconnect (port connects to host bridge 104), a first secondary port connected to a bridge (legacy bridge 116), and a plurality of end-device ports, each connectable to one of a plurality of end devices (end-points), the method comprising the steps of: identifying a transaction from a primary port (port connect to host bridge) as a bridge transaction (transactions to legacy bridge) or a non-bridge transaction (transaction to end-points); routing the bridge transaction to the bridge through the first secondary port (port connects the switch to the legacy bridge); routing the non-bridge transaction to at least one of the plurality of end device ports (port connects the switch to the end-points).

Regarding claims 8 and 9, Ajanovic discloses peer-to-peer transactions, wherein the transaction is a downstream transaction (see paragraph 0070).

Regarding claim 19, Ajanovic discloses a system (figure 1), comprising: a processor (102); a memory coupled to the processor (paragraph 0068 on page 3); an interconnect bus coupled to the processor, the interconnect bus comprising: a primary bus segment coupled to the

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processor (see figure 1); a switch having a primary side with a primary port coupled to the primary bus segment and a secondary side with a plurality of secondary ports (see 4 ports of the switch in figure 1), the switch comprising a routing engine (the routing engine is within the switch, not shown in figure 1) configured to selectively transmit a transaction from the primary port to at least one secondary-port of the plurality of secondary ports based on the absence of a bridge downstream from the at least one secondary port (see paragraph 0070 where Ajanovic teaches of routing a transaction from any port to any other ports).

Regarding claim 21, Ajanovic further discloses a second bus segment (bus connects to the legacy bridge) coupled to one of the plurality of secondary ports and an end device (end-points) coupled to another one of the secondary ports.

#### ***Allowable Subject Matter***

5. Claims 10-12, 14, and 16-18 are allowed.
6. Claims 2-7, 20, and 22 would be allowable if rewritten to overcome the objection(s) and/or the rejection(s) under 35 U.S.C. 112, 1<sup>st</sup> and/or 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

#### ***Response to Arguments***

7. Applicant's arguments with respect to claims 1, 8, 9, 19, and 21 have been considered but are moot in view of the new ground(s) of rejection.

#### ***Conclusion***

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8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

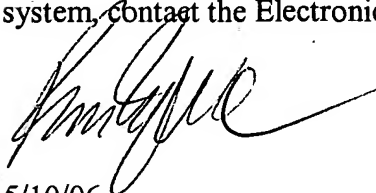
A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian D. Nguyen whose telephone number is (571) 272-3084. The examiner can normally be reached on 7:30-6:00 Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin can be reached on (571) 272-3134. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



5/10/06

**BRIAN NGUYEN**  
**PRIMARY EXAMINER**